

ABSTRACT

An apparatus and method for accurately measuring the thermal noise power of a silence period and increasing the control efficiency of reverse link load in a mobile communication system. In the received power measuring apparatus, a UPMB measures the received power of the reverse link, accumulates the measured received power, and outputs the accumulated received power as a received power value. A remover compensates the received power value using a time constant if the received power value is for a silence period. A controller provides a silence period signal to the remover when the silence period starts.